

#### PROJECT NOTE

#### **REGION II SITE ASSESSMENT TEAM 2**

To: Selecto Flash, Inc. Site File

Date: June 21, 2007

**Page**: 1 of 7

From: Michele Capriglione

Subject: Groundwater Population within 4 Miles of the Selecto Flash, Inc. site

This project note documents the number of people served by public supply wells located within the 4-mile target distance limit of the Selecto Flash, Inc. site. Information on public supply wells (i.e., permit numbers, owners, and locations) was obtained from the New Jersey Department of Environmental Protection and the New Jersey Geological Survey at http://www.state.nj.us/dep/njgs/geodata/dgs97-1.htm. The location information was used determine which wells are located within the 4-mile target distance limit. Figure 3, included in this report displays the location of each public supply within the 4-mile target distance limit.

The owner of each public supply well was contacted to determine the drinking water population associated with each well. Attached to this project note is the list of public supply wells, their owners and the telephone logs documenting the conversations with the owners from which groundwater populations were calculated.

The following provides the breakdown of groundwater population within each distance ring of the 4-mile target distance limit of the Selecto Flash, Inc. site:

Distance Ring	Well Owner		Well ID	Population
0 to 0.25 Miles	No Wells			0
0.25 to 0.50 Miles	No Wells		-	0
0.50 to 1.0 Miles	Orange Water Department Orange Water Department		Orange Park Well Brook Lane Well	5,478 Not In Service
1.0 to 2.0 Miles	South Orange Water Department Orange Water Department		Well 17 Gist Place Well	555 5,478
2.0 to 3.0 Miles	Orange Water Department		Well 6	5,478
3.0 to 4.0 Miles	Orange Water Department Orange Water Department Orange Water Department Orange Water Department East Orange Water Department Montclair Water Bureau Bloomfield Water Department Essex Fells Water Department		Well 2 Well 3 Well 4 Well 5 Canoe Brook Well 6 Glenfield Well Well G	5,478 5,478 5,478 Not In Service 3,500 3,800 Not in Service 1,375
Summary:	Distance Ring	Total P	opulation	·
	0 to 0.25 Mile 0.25 to 0.5 Mile 0.50 - 1.0 Mile 1.0 to 2.0 Miles 2.0 to 3.0 Miles 3.0 to 4.0 Miles	0 0 5,478 6,033 5,478 25,109	Michele (cy	
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Signature

Michele Capriglione

WEL LID	PERMIT ID	OWNER	WELL NAME	ADDRESS	COUNTY	MUNICIPALITY	DEPTH	GEOLOGIC FORMATION	AQUIFER
2604763	26-04763	Bloomfield Water Dept	Well G (Well 1)	Memorial Drive	Essex	Bloomfield Town	380.00000	Passaic Formation - sandstone	Brunswick aquifer
2604700	26-04700	East Orange Water Dept	Canoe Brook Well 6	East Hobart Gap Rd	Essex	Livingston Twp	172.00000	Preakness basalt	basalt
4600201	46-00201	Essex Fells Water Dept	Well 2	Oval Rd	Essex	West Caldwell Boro	40.00000	Stratified drift	glacial sand and gravel
2603688	26-03688	Montclair Water Bureau	Well 3 (Glenfield Well)	Bloomfield Ave & Maple Ave	Essex	Montclair Town	300.00000	Passaic Formation - sandstone	Brunswick aquifer
2602262	26-02262	Orange Water Dept	Well 5	South Mountain Reservation	Essex	Millburn Twp	106.00000	Stratified drift	glacial sand and gravel
4600169	46-00169	Orange Water Dept	Well 2	South Mountain Reservation	Essex	Millburn Twp	113.00000	Stratified drift	glacial sand and gravel
4600170	46-00170	Orange Water Dept	Well 3		Essex	Millburn Twp	75.60000	Stratified drift	glacial sand and gravel
4600171	46-00171	Orange Water Dept	Well 4	Valley & Beach Sts	Essex	Millburn Twp	94.00000	Stratified drift	glacial sand and gravel
2603701	26-03701	Orange Water Dept	Well 6	Cherry Lane	Essex	West Orange Town	132.25000	Stratified drift	glacial sand and gravel
2603440	26-03440	Orange Water Dept	Orange Park Well	Oakwood Drive	Essex	Orange City	551.00000	Passaic Formation - sandstone	Brunswick aquifer
2604444	26-04444	Orange Water Dept	Brook Lane Well (Well 9)	Brook Lane	Essex	Orange City	506.00000	Passaic Formation - sandstone	Brunswick aquifer
2604322	26-04322	Orange Water Dept	Gist Place Well (Well 8)	Gist Place	Essex	Orange City	500.00000	Passaic Formation - sandstone	Brunswick aquifer
2601354	26-01354	South Orange Water Dept	Well 17	Grove Rd & South Orange Ave	Essex	South Orange Village	343.00000	Passaic Formation - sandstone	Brunswick aquifer

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Conversation with:	Date 6,20,07
Name Bob Galante	TimeAMPM)
Company Orange Water Dept.	
Address	Originator Placed Call
	☐ Originator Received Call
Phone 973-678-7585	W.O. No. 20113 011 001 0064 00
	goundwater population distribution
Notes:	
There are le active	Wells in the orange
Water Department, Wel	11 2, Well 3, Well 4, Well Co.
Orange Park Well and	Gist Place Well. These
Wells serve 32,868 a	reaple. All le wells are
located within the tar	raft distance limit of
4 miles of the Selector	UFlash site.
No single well provides n	nore than 40% to the
total System. No surface	more than 40% to the water is in the system.
Wells 2.3.486 are blend	ded then sent to UST holding
area where the water is	5 treated (romosion control)
& sodium hydrochlonide). The	e Orange Park and Past
Place well are treated	of the well head ( geration
for VOCs, compsion control	I and sodium hydrochlonide)
prior to being fed into	the distribution lines.
32,868 people / 6 wells	= 5,478
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☐ Follow-Up By:	
Copy/Route To:	
	Originator's Initials



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Conversation with:	Date
Name Hamy Mansmann (HIII)	TimeAM/PM)
Company recutive Director of Cast	
Address Orange Water Commission	Originator Placed Call
U.	☑ Originator Received Call
Phone 973 266-8869	W.O. No. <u>20113 011 001 0064 00</u>
Subject East Orange & South Orange	ge govoquater population
0 0	U distribution
Notes:	
The Cance Brook Well Co, owned	by East Orange Water Dept. 15
located within the 4-mile target of	distance limit of the Selecto
Flash Site. I spoke with HM to	determine the groundwater
population associated with this i	vell.
There are 18 public supply well	s plended with water purchased
from the city of Newark. Fura	naced water = 10% of the
system. No Yvell contributes more	than 40% to the total
system. There are aprox 70,00	o people served by this
<u> SYSFem. +0,000 - +,000 (puronasea</u>	water) = 63,000/ 48 wells =
3,500 people per well (cast	Orange)
1111117 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lie O tubish is a Char
Well It, owned by South Orange W	ater Dept which is part of
the cost urange water comprission	11 15 W/ 4 MILES OF THE SITE
I Spoke Wy 1911 to defermine all	E DAD DODUCTION CISSOCICITION WIFTIS
Well South Urange Serves aprix 2	o, vou people a total or
2,250,000 gallens/day. '50,000	ganons day are from well IT.
2,250,000/50,000 = 45: 25	200/45 = 555 people
2,200,000/30,000 - 40 dr)	100/40 - 000 people
	(South Orange)
	(Net) 170
File	
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☐ Copy/Route To:	
	/ <i>MM</i>
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Conversation with:	Date <u>6 / 20 / 0 +</u>
Name Montolair Water Bureou	Time
Company Spoke w/ Fay	
Address	☐ Originator Placed Call
	☐ Originator Received Call
Phone 973-744-4600 ext: 3013 GW	W.O. No. <u>20113: 011.001.0064.00</u>
Phone 973-744-4600 ext: 3013 FW Subject Montclair Water Bureau popu	lation distribution
, ,	
Notes:	
The Glentield well, owned by	
is located within the target	distance limit of
4-miles of the Selector Flas	sh Site. I spoke w/
Gay of the Montclair water	Bureau to alternine the
AN population associated by t	he Glenbield well.
The total system is comprised	of 3 wells and
purchased water: 3 we	115 20%
! purchased	water 80%
	301
The three wells are: Glenheld u	1611 50%
Lorraine u	1011 35%
Rand we	11 15 %
All the wells have air strippers of	on them to eliminate
regional VOC contamination in	GW." The total
system serves aprix. 38,000	people.
	C 7 (42
2010 = 1,600 people . 50% 0	f 7,600 = 3,800 people.
, ,	
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(i) /	





Conversation with:	Date 6 1 201 07
Name Bloomheld Water Hept.	Time// AM/PM
Company Spole W/ Steve	
Address <u>Capola</u>	☐ Originator Placed Call
	☐ Originator Received Call
Phone <u>973-680-4008</u>	W.O. No. <u>20113 · 011·001·0064·0</u> 0
	W population distribution
	/ /
Notes: Well G, owned by Bloom	Reid Water Dept, 15
located within the 44 mile to	rget distance limit of
the Selecto Flash site. I s	boke w/ Steve Copola
of the Bloomfield Water Dep	t to determine the
GW population associated i	with well G
He reported that well G is	not in use and has
not been in use since	the 1980's. The water
was too "hard" and residen	ts complained about
the water. The well is no	t in use put in
the case of a fire emerger	nay could be turned on
and BSed by the fire	depart ment
9 0,00	7
Residents of Bloomfield are	served w/ water
ourchased from Newarts.	NeseWOIT
The second of th	
V <del>-</del>	
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	Follow-Up-Action:
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Conversation with:	Date 6 1 26 1 0 +	
Name Jack Paulman-Superintende	7 time / 0 (A	M/PM
Company ESSEX Fells Water Dept		
Address/	Originator Placed Call	
	☑ Originator Received Call	
Phone 973-228-8582	W.O. No. <u>2013:011:001</u>	0064-00
Subject ESSEX Fells Water Departi	nent groundwater	Dapulation
	distribution	
Notes:		
Well 2, owned by Essex	Fells Water Dept.	is located
	tance limit of t	he
	ke with Jack F	aul Man
to determine the ground wa	ter population a	ssociated
with this well.		
There are He wells associal	ted with the Esse	ex fells
System. No Single well wit	hin that system	provides
more than 40% to the 5	Istem total. No	surface
water is hunded into the	System. The s	system
provides water to aprox.	22,000 people	. There
is treatment on some of	the 11e wells ho	wever
there is no treatment on	Well 2.	
22,000 people / ile wells =	1375 people se	erved by
	Well 2	in the
	ESSEX Fell	5 Water
	Dept.	
	<u> </u>	
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